

What is claimed is:

1. A spot welding system for performing spot welding operations using a spot welding gun having a servomotor for driving welding tips to apply a pressing force on objects of welding, comprising:

a temperature sensor arranged at a suitable position for detecting temperature of the servomotor or movable components of the spot welding gun; and

a controller for controlling the servomotor such that the welding tips apply a predetermined pressing force on the objects of welding based on the temperature detected by said temperature sensor.

2. A spot welding system according to claim 1, wherein said controller compensates a commanded pressing force using a relation between variation of the temperature and variation of the pressing force.

3. A method of controlling a pressing force applied on objects of welding from welding tips driven by a servomotor of a spot welding gun for performing spot welding operations, comprising:

detecting temperature of the servomotor or movable components of the spot welding gun; and

controlling the servomotor such that the welding tips apply a predetermined pressing force to the object of welding based on the detected temperature.

4. A method of controlling a pressing force of a spot welding gun according to claim 3, wherein said controlling of the servomotor includes compensating a commanded pressing force using a relation between variation of the temperature and variation of the pressing force.